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IN THE CLAIMS:

- 1. (Currently Amended) An uninterruptible power system for inputting an AC power, converting the AC power into a desired power, supplying the desired power to a load, and upon occurrence of an AC failure, converting a <u>DC</u> power from energy accumulation means into the desired power and supplying the desired power to the load, wherein the <u>DC</u> power from said energy accumulation means is passed through two serially connected boost means, and thereafter the power is converted into the desired power to be supplied to the load.
- 2. (Original) An uninterruptible power system according to claim 1, wherein one of said two boost means is a boost converter for receiving an output of said energy accumulation means, boosting the output by switching control and supplying the boost output to the other of said two boost means.
- 3. (Original) An uninterruptible power system according to claim 1, wherein one of said two boost means is a boost converter for receiving an output of a rectification circuit and suppressing input current harmonics of said AC power by switching control.
- 4. (Original) An uninterruptible power system according to claim 3, wherein the other of said two boost means is a boost converter for receiving an output of said energy accumulation means, boosting the output by switching control, and supplying the boost output to an input side of said boost converter.

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- 5. (Original) An uninterruptible power system according to claim 1, comprising: a rectification circuit connected to an AC power source; first boost means for boosting an output of said rectification circuit; a multi-output converter for converting an output of said first boost means into a plurality of difference DC voltages; and second boost means for feeding a power in said energy accumulation means to said first boost means upon occurrence of an AC power failure.
- 6. (Original) An uninterruptible power system according to claim 5, wherein said first boost means is a boost converter for receiving an output of said rectification circuit and suppressing input current harmonics of said AC power by switching control.
- 7. (Original) An uninterruptible power system according to claim 5, wherein said second boost means is a boost converter for receiving an output of said energy accumulation means, boosting the output by switching control, and supplying the boost output to an input side of said boost converter.
 - 8. (Currently Amended) An uninterruptible power system comprising: a rectification circuit connected to an AC power source;
- a boost converter for receiving an output of said rectification circuit and suppressing input current harmonics by switching control;

an output converter for converting an output of said boost converter into a desired DC voltage to be supplied to a load;

energy accumulation means; and

boost means for feeding a <u>DC</u> power in said energy accumulation means to towards said output converter upon occurrence of an AC power failure,

wherein said boost means boosts a-the DC power in said energy accumulation means and feeding the boost power to an input side of said boost converter.

- 9. (Original) An uninterruptible power system according to claim 8, wherein said energy accumulation means is a rechargeable battery, an electric double layer capacitor or a fuel cell.
- 10. (Original) An uninterruptible power system according to claim 8, wherein said output converter converts an output of said boost converter into a plurality of different DC voltages and supplying the voltages to the load.
- 11. (Original) An uninterruptible power system according to claim 10, wherein said energy accumulation means is a rechargeable battery, an electric double layer capacitor or a fuel cell.
 - 12. (Currently Amended) An uninterruptible power system comprising: a rectification circuit connected to an AC power source;
- a boost converter for receiving an output of said rectification circuit and suppressing input current harmonics of said AC power by switching control;

an output converter for converting an output of said boost converter into a desired DC voltage to be supplied to a load;

energy accumulation means; and

boost means for feeding a <u>DC</u> power in said energy accumulation means to towards said output converter upon occurrence of an AC power failure,

wherein a portion of an output side of said output converter is coupled to a high voltage side of said boost means, said boost means is a bi-directional DC/DC converter capable of a back mode operation in a reverse direction, said boost means charges said energy accumulation means while the AC power source is normal, and while the AC power source fails, said boost means boosts a-the DC power in said energy accumulation means and discharges supplies the boost power in to an input side of said boost converter.

- 13. (Original) An uninterruptible power system according to claim 12, wherein a voltage on a high voltage side of the bi-directional DC/DC converter is set higher while the AC power source fails than while the AC power source is normal.
- 14. (Original) An uninterruptible power system according to claim 12, wherein switch means is provided between an input side of said boost converter and a high voltage side of said bi-directional DC/DC converter, while the AC power source is normal, said switch means is turned off and said bi-directional DC/DC converter performs a voltage lowering operation to charge said energy accumulation means, and while the AC power source fails, said switch means is turned on and said bi-directional DC/DC converter performs a voltage raising operation to supply an energy in said energy accumulation means to said boost converter via said switch means.

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- 15. (Original) An uninterruptible power system according to claim 14, wherein a voltage on a high voltage side of the bi-directional DC/DC converter is set higher while the AC power source fails than while the AC power source is normal.
- 16. (Original) An uninterruptible power system according to claim 12, wherein said output converter converts an output of said boost converter into a plurality of different DC voltages to be supplied to the load.
- 17. (Original) An uninterruptible power system according to claim 16, wherein switch means is provided between an input side of said boost converter and a high voltage side of said bi-directional DC/DC converter, while the AC power source is normal, said switch means is turned off and said bi-directional DC/DC converter performs a voltage lowering operation to charge said energy accumulation means, and while the AC power source fails, said switch means is turned on and said bi-directional DC/DC converter performs a voltage raising operation to supply an energy in said energy accumulation means to said boost converter via said switch means.
- 18. (Original) An uninterruptible power system according to claim 17, wherein a voltage on a high voltage side of the bi-directional DC/DC converter is set higher while the AC power source fails than while the AC power source is normal.